

WHAT IS CLAIMED IS:

1. A laser beam projection device having a rotary locking structure, comprising:

(a) a base having an outer surface, an inner surface, a first end, and a second end;
said base including:

5 a contacting surface disposed on said outer surface of said base for securing
said base;

 two first guiding portions communicating said outer surface of said base with
said inner surface of said base, each of said first guiding portion having a first diameter,
said two first guiding portions being substantially equally spaced from said first end and
10 said second end respectively, a predetermined height being disposed between said first
guiding portion and said contacting surface;

 two second guiding portions aligned with said first guiding portions and
communicating said inner surface of said base with said outer surface of said base
respectively, each of said second guiding portions having a second diameter less than said
15 first diameter;

 two threaded holes disposed on said base and positioned between said first
guiding portion and said second guiding portion, each threaded hole having a plurality of
tilted pushing surfaces;

(b) a working portion at least containing a vertical laser beam projection unit and
20 horizontal laser beam projection unit;

(c) two rotary locking portion, each of said rotary locking portion having a hand
knob, a guiding section, a threaded section, a working section, and a conical section;
wherein

 said hand knob having a hand knob diameter and connected with said guiding
25 section,

said guiding section having an outer diameter approximately equal to said first diameter of said first guiding portion,

said screw section being corresponding to said threaded hole, said screw section having a plurality of tilted cooperating surfaces, and a direction from said screw section to
5 said working section being defined as a locking direction,

said working section having a working diameter approximately equal to said second diameter but far less than said hand knob diameter, said working section extending through said second guiding portion of said base and protruding over said outer surface of base, and

10 said conical section having a conical shape for firmly securing.

2. The laser beam projection device as claimed in Claim 1, wherein two fixing recessed are formed on or near said first end and said second end respectively.